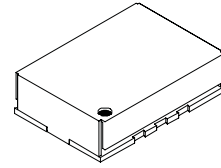




Pletronics, Inc.

19013 36th Ave. W, Suite H • Lynnwood, WA 98036 USA
 Manufacturer of High Quality Frequency Control Products

VC2, VC3 VCXO Series



- 6 Pad Leadless Surface Mount Voltage Controlled Xtal Oscillator
- CMOS/ TTL Compatible (VC2 without E/D, VC3 with E/D)

1.500 MHz – 200.00 MHz

RoHS Compliance: Not recommended for use in high temperature lead free assembly process. Use TCA4, TCD4 series

Standard Specifications

Overall Frequency Stability	± 15, 25, 50, 100 PPM over Operating Temperature Range
Operating Temperature Range	0 to +70°C is standard, but can be extended to - 40 to +85°C for certain frequencies
Supply Voltage (Vcc)	5.0 volts and 3.3 volts available
Output Load	Std load is 15pF max., see Test Circuit 7 for VC2, TC 8 for VC3 (consult factory for heavier loads)
Control Voltage Range (CVR)	0.5 to 4.5 volts for 5.0 volt Supply; 0.0 to 3.3 volts for 3.3 volt Supply
Pullability over CVR	± 25, 50, 100, 150, 200 PPM. Consult factory for ± 300 PPM.
Linearity	± 10% (Consult factory for ± 5%)
VC3 Enable/Disable Option (E/D)	Output enabled when Pin #2 is open or at Logic "1"; Output disabled when Pin #2 is at Logic "0".

Frequency Range (MHz)	Supply Current Icc (mA)		Rise and Fall Time Tr & Tf (nS)	
	Typical	Maximum	Typical	Maximum
1.500 – 20.000	10	15	3.5	5.0
20.001 – 30.000	20	25	3.0	4.5
30.001 – 50.000	25	30	3.0	4.0
50.001 – 60.000	30	35	2.5	3.5
60.001 – 200.00	Consult Factory for values			

Part Numbering Guide

Portions of the part number that appear after the frequency may not be marked on part (C of C provided)

3 VC22H 100 A Z - 60.0M - XXX (Internal Code or blank)

Supply Voltage
 Blank = 5.0 volts ±5%
 3 = 3.3 volts ±5%

Model
 VC22H=without E/D
 VC32H=with E/D

Frequency Stability
 15: ± 15 PPM
 25: ± 25 PPM
 50: ± 50 PPM
 100: ± 100 PPM

Frequency in MHz

Frequency Deviation (Pullability) over CVR
 T: ± 25 PPM X: ± 150 PPM
 V: ± 50 PPM Y: ± 200 PPM
 W: ± 100 PPM Z: ± 300 PPM

Operating Temperature Range
 A: 0 to +50°C D: -20 to +75°C
 B: 0 to +70°C E: -30 to +75°C
 C: -10 to +70°C F: -40 to +85°C

Packaging
 Tube or
 24mm tape
 16mm pitch

VC22H		VC32H	
PIN	SIGNAL	PIN	SIGNAL
1	Vcon	1	Vcon
2	N.C. *	2	E/D *
3	GND	3	GND
4	OUT	4	OUT
5	N.C.	5	N.C.
6	Vcc	6	Vcc

Consult factory for available frequencies and specs. Not all options available for all frequencies. A special part number may be assigned.
 Frequency Stability is inclusive of frequency shifts due to calibration, temperature, supply voltage, shock, vibration and load

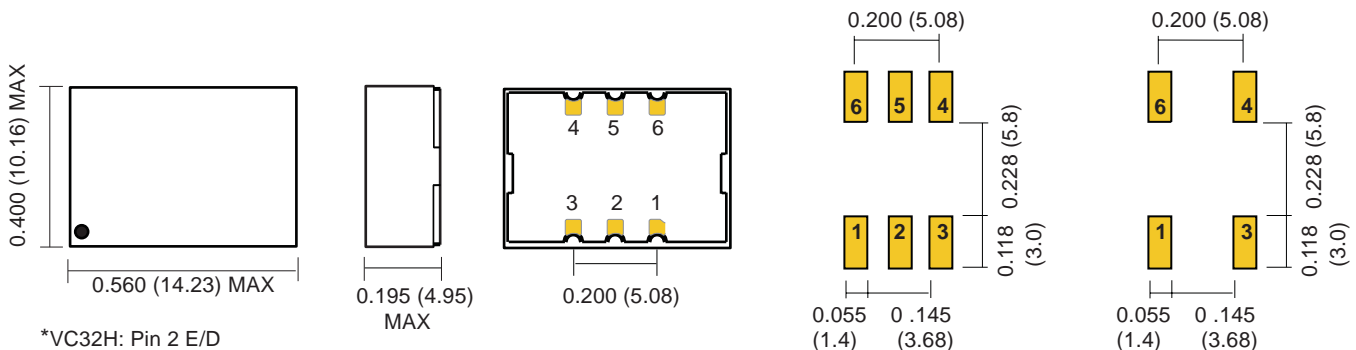
Mechanical: inches (mm)

not to scale

VC3 Solder Pads

VC2 Solder Pads

Due to part size and factory abilities, part marking may vary from lot to lot and may contain our part number or an internal code.



*VC32H: Pin 2 E/D

*VC22H: Pin 2 N.C. (do NOT connect to Pin 2)

Nov 2005